

THAT WHICH IS CLAIMED:

- 506*
A2
1. A solution for perfusing and storing a heart while awaiting transplantation comprising:
- 5 (a) a balanced isotonic solution in a physiologically acceptable amount;
- (b) a cyclosporin; and
- (c) water.

2. The solution according to Claim 1 wherein said balanced isotonic solution includes sodium, potassium, calcium, magnesium ions and bicarbonate.

10 3. The solution according to Claim 1 wherein said cyclosporin is present in an amount from about 2.5 μ M to about 10 μ M per liter of solution.

4. The solution according to Claim 1 wherein said cyclosporin is
15 present in an amount from about 5.0 μ M to about 8.0 μ M per liter of solution.

5. The solution according to Claim 1 wherein said balanced isotonic solution comprises:

20

Concentration Ranges in 1 Liter

25

NaCl	85 mM to 145 mM ✓
KCl	3 mM to 50 mM ✓
CaCl ₂	0.5 mM to 2.5 mM ✓
KH ₂ PO ₄	0.7 mM to 1.3 mM ✓
MgSO ₄	0.9 mM to 4.8 mM †
NaHCO ₃	15 mM to 35 mM ✓
Glucose	1.0 mM to 50 mM ✓

30

and said cyclosporin is present in an amount from about 2.5 μ M to about 10 μ M per liter of solution.

- 22
cost
6. A method for preserving hearts which extends the life of the heart during transplantation comprising:
perfusing and storing a heart with a solution comprising:
5 (a) a balanced isotonic solution in a physiologically acceptable amount;
(b) cyclosporin; and
(c) water.

10 7. The method according to Claim 6 wherein said balanced isotonic solution includes sodium, potassium, calcium, magnesium ions and bicarbonate.

8. The method according to Claim 6 wherein said cyclosporin is present in an amount from about 2.5 μM to about 10 μM per liter of solution.

15

9. The method according to Claim 6 wherein said cyclosporin is present in an amount from about 5.0 μM to about 8.0 μM per liter of solution.

10. The method according to Claim 6 wherein said balanced isotonic solution comprises:

20

Concentration Ranges in 1 Liter

25	NaCl	85 mM to 145 mM
	KCl	3 mM to 50 mM
	CaCl ₂	0.5 mM to 2.5 mM
	KH ₂ PO ₄	0.7 mM to 1.3 mM
	MgSO ₄	0.9 mM to 4.8 mM
30	NaHCO ₃	15 mM to 35 mM
	Glucose	1.0 mM to 50 mM

and said cyclosporin is present in an amount from about 2.5 μ M to about 10 μ M per liter of solution.